

C 8127 - I-90 - Snowshed to Keechelus Dam Phase 1C - Replace Snowshed and Add Lanes

Q & A # 10, June 16, 2011

Question #	Reference & Page #	Question	Response
111	Special Provisions, Page 188	In the Special Provisions for Removal of Structures and Obstructions, on Page 188 the 3rd paragraph states, "Each remaining concrete barrier unit that is removed shall be used as temporary concrete barrier whenever the barrier unit has one scupper and meets the requirements of detail sheet TDE1-1 without any noticeable structural deficiencies. If these requirements are not met, the removed barrier unit shall become the property of the Contractor and be removed from the project limits." It appears that the majority of the existing barrier units to be removed do not have scuppers. Does the temp barrier we bring on site for the remaining barrier requirements need to be scuppered?	Yes, all temporary barrier is to have at least one scupper. The temporary barrier and scuppers must meet the requirements specified in the Special Provisions.
112	Plan Sheets 689-692	Bid Item 108, "Conc. Class 4000 for Shaft Cap", appears to be the payment item for the concrete in the Shaft Caps for Wall 23 shown on Sheets 689-692. The Section view of this shaft cap on Sheet 689 has a note calling it Conc. Class 4000 for Retaining Wall which would indicate this concrete should be paid under Bid Item 105. Which of these Bid Items is the concrete for the Shaft Cap on Wall 23 supposed to be paid under?	Bid Item 108 pays for the Shaft Cap concrete for Wall 23. Late in design WSDOT changed the description on Sheets 689 and 690 from "Concrete Class 4000 for Shaft Cap" to "Concrete Class 4000 for Retaining Wall"; however, this change should be ignored as it did not get carried forward to the Summary of Quantities.

C 8127 - I-90 - Snowshed to Keechelus Dam Phase 1C - Replace Snowshed and Add Lanes

Q & A # 10, June 16, 2011

Question #	Reference & Page #	Question	Response
113	---	The Contract Plans and specifications call for a CIP facing on the geosynthetic wall. The Standard Plans allow a shotcrete facing on geosynthetic walls which could be installed in a much more efficient operation than the CIP facing called out. CIP facing on a geosynthetic wall is difficult to build, will impact the project schedule significantly and will present many placement issues due to the very tall wall sections on Wall 3. Will a shotcrete facing be allowed on Wall 3 (a geosynthetic wall)? Will a shotcrete facing be allowed on Wall 7 (a soil nail wall)?	No on both questions. Shotcrete will not be allowed for Wall 3 or Wall 7. Shotcrete was excluded from the Plans because these walls are inundated by fluctuating lake levels. Due to the performance requirements on these inundated walls, the WSDOT Bridge and Structures Office required Cast-in-Place walls. Please refer to Standard Specification 1-04.2 to the Order of Precedence to note that the Contract Plans take precedence over the Standard Plans.
114	Plan Sheet 1087	On Sheet 1087, the Typical End Elevation drawing notes "12 G4 #5 bars...". View A shows 6 G4 bars. Which is correct?	Six is the correct number of G4 #5 bars for this situation.
115	Plan Sheet 694, and Std. Spec. Section 6-17.3(5)	Plan Sheet 694 (Sheet W23-8) specifies that the design load for permanent ground anchors at Wall 23 is the factored design force (factored design load). Standard Specification 6-17.3(5) indicates that the tendons shall be sized so that the design load does not exceed 60-percent of the minimum guaranteed ultimate tensile strength of the tendon. This note does not indicate whether the design load used in sizing is the factored design load or the un-factored design load. Please verify whether the load to be used in sizing is the load as shown in the table or whether an un-factored load may be used in sizing (for satisfying the 60-percent criterion). If an un-factored design load may be used, then what is the factor that needs to be used to obtain the un-factored design load from the factored design load?	For Wall 23, the requirement that design load not exceed 60 percent of minimum guaranteed ultimate tensile strength should be based on factored design load.

C 8127 - I-90 - Snowshed to Keechelus Dam Phase 1C - Replace Snowshed and Add Lanes

Q & A # 10, June 16, 2011

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116	Plan Sheet 693, and Std. Spec. Section 6-17.3(3)	Note 5 on Plan Sheet W23-7 (Sheet 693) has a provision for the contractor fabricating the ground anchors for Wall 23 as follows; "Fabricate anchors with 10 ft. minimum additional unbounded length beyond the calculated installed length described in Note 4." In the event that extra drilling becomes necessary, due to length to bedrock being over and above the estimated anchor length to bedrock given in the referenced plan, what mechanism will be adopted to compensate the contractor for the drilling?	Please note that the unbounded lengths given for Wall 23 are estimated, the Contractor is responsible for the bonded, unbounded lengths per Std. Spec. Section 6-17.3(3). The contractor Geotech should look at the Geotech Reports, Plans, and Profiles to give their estimate of lengths and bid appropriately.
117	Plan Sheets 998 and 1060	Plan Sheets 998 (Sheet BG163) and 1060 (Sheet BG225) specify design forces (design Loads) for permanent ground anchors at Piers 1 and 2. Should these forces be considered factored design loads as per LRFD or un-factored design loads? Should the factored design load or un-factored design load be used in sizing the tendons? What is the factor that needs to be used if the design loads shown in the tables are the factored design loads and an un-factored design load needs to be used in sizing?	The design force is factored design load per AASHTO LRFD. The Factored design load is to be used for sizing the anchor.
118	---	With regard to Pier 1 and Pier 2 permanent ground anchors for the Snowshed: The provision, quoted in Question 116 above, for 10 ft. additional unbounded length beyond calculated installed length does not appear for Piers 1 and 2 of the Snowshed. Should this "10 ft extra" provision be applied to Piers 1 and 2 as well?	The contractor shall determine the required unbounded lengths based on the Geotech Report cross-sections and information in the Plans. The minimum required length called out in the Plans is based on the Geotech Report. Please contact the URS Geotech engineers for any question in determining the estimated unbounded lengths.

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Q & A # 10, June 16, 2011

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119	Cause and Effect Matrix in Appendix A	Addendum No. 5 includes a revised "Cause and Effect Matrix – Table A" for the fire alarm system. Not a serious problem but: 1.) SL No. 53 is missing, and 2.) Line 63, the third "X" shown in column 13 should be in column 14.	1.) The table was incorrectly numbered, that is, SL No. 53 was skipped, but WSDOT will leave the table as it currently is. 2.) The "X" should appear in the second to the last column (Column No. 14 of 15 on line 63).
120	Cause and Effect Matrix in Appendix A, and Plan Sheets 1401 and 1427	1.) SL No. 22: Smoke Detector Initiation at Generator Windings. Is this the area smoke detector in Generator Room or a Generator panel output? If area smoke detector, it is redundant with SL No. 1 activity. If a Generator panel output, what is the signal – dry contact closure? 2.) Plan Sheet 1427 (Sheet EC62) shows one smoke detector in Generator Room. Plan Sheet 1401 (Sheet EC11) one-line shows two. Which is correct?	1.) Remove SL No. 22 from Fire Alarm Cause and Effect Matrix. 2.) Sheet EC62 is correct. Remove smoke detector in exhaust room inside generator building.

C 8127 - I-90 - Snowshed to Keechelus Dam Phase 1C - Replace Snowshed and Add Lanes

Q & A # 10, June 16, 2011

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121	---	<p>1) Is there a specification for the call boxes?</p> <p>2) Are the panels and wireway in the Equipment Hut to be Nema 1?</p> <p>3) Are the boxes called for in Bid Items 142, 143, and 146 to have back plates and/or terminal strips or terminal lugs?</p>	<p>1) Call box shall be installed in a custom design stainless steel enclosure as indicated in the Plans. Call box shall include the following features and capability:</p> <ul style="list-style-type: none"> a) NEMA 4X red fiberglass enclosure b) Dials up to 5 emergency numbers c) Programmable to play location identification message d) Fully automated operation e) Designed for either 120 vac or 24 vac/dc power f) Built-in back-up battery g) Programmable with on-board keypad or remotely with a touch-tone phone h) Includes LED, push button and braille label i) Contractor shall wire call box to telephone system provided by Owner. Owner will provide phone line port for 10 call boxes. Contractor shall provide and install cables from call box to telephone system as indicated in the Plans. Contractor shall program call box for push-to-talk functionality. <p>2) In most cases inside the Equipment hut NEMA 12 rating / classification will work. Ultimately Standard Specification 8-20.1(1) as well as the NEC controls this issue.</p> <p>3) Terminal strips/lugs are not required, except for the lighting control panel.</p>
122	Plan Sheet 172A	How is the median paving going to be accomplished, especially through the Snowshed?	Refer to Plan Sheet 172A (Sheet MP1) to see how the median paving will be accomplished during Stage 5. Also see Question #85 in Q&A #8.

C 8127 - I-90 - Snowshed to Keechelus Dam Phase 1C - Replace Snowshed and Add Lanes

Q & A # 10, June 16, 2011

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123	---	Concerning Season 1 work occurring in 2011: Given the bid date of 6/22, if one assumes that award will be timely after the bid date (say one week), the notice to proceed will still have to be presented (which typically is 30 to 60 days) which would put the practical construction start date at mid to late August. The Detour will have to be installed after which there will be a very limited window to get any wall installation begun, let alone completed before October 15th and/or the winter weather hits. Given this timeline it does not appear that there is any realistic possibility to get Season 1 work done in the year 2011 in the time remaining. So the question is whether or not WSDOT intends to consider Season 1 to occur in the year 2011 or 2012? For our part we would have serious doubts that the work outlined in Season 1 could be completed this year, and would request that season 1 work would not be considered until 2012.	Most of the items in the Order of Work for Season 1 state "Begin", which would imply that the work would not finish in that season. The following items do not list begin but are items that have to be finished prior to another activity starting: Item 1 – TESC will have to be installed prior to any work being done, Item 2 – AMTS Tower T100 installed prior to AR6 construction, Item 3 – construct DE11 & DW11 prior to AR6 & AR1 construction, Item 5 – rock slope monitoring installed & operable prior to rock cuts, and In Addendum No. 1, an Item 13 was added for culvert replacement work at Upper Resort Creek. The only items in Season #1 that are required to be finished in Season #1 are Items 1 (TESC if any other work is to be done), 2 (AMTS Tower T100 installation if AR6 work begins as specified), 11 (Excavation to remove rock and obstructions to build foundations for the sign located at AE 116+30 shall be finished by the end of season 1), and 13 (Upper Resort Creek culvert replacement work).
124	---	Does the barrier around Slide Curve have surface aging treatment on it?	No, all barrier has integral color added and is not included in the surface aging treatment. All the surface aging treatment is on the Median MSE Wall (Wall 8) at Slide Curve (as shown on Sheet W8-6).
125	---	On Plan Sheet 1483 (Sheet RK11), Note 5 states "ROCK SLOPE SCALING SHALL BE DONE DURING BLASTING OPERATION CLOSURES." Does this mean we have 60 minutes to slope scale?	Due to the large size of the rocks and the height in this area, for the safety of the traveling public, this work needs to be done during road closures. Yes, this means that it will have to be done in the 60 minute closure time.

C 8127 - I-90 - Snowshed to Keechelus Dam Phase 1C - Replace Snowshed and Add Lanes

Q & A # 10, June 16, 2011

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126	Plan Sheet 1479	<p>Plan Sheet 1479 (Sheet RK7) shows a table named "UPSLOPE STABILIZATION SCHEDULE SECTOR XIII". In the table the "ITEM" column lists "HORIZONTAL PVC DRAINS". Is this correct?</p> <p>If the answer to the previous question is no, then is the quantity for "UPSLOPE HORIZONTAL PVC DRAIN" also incorrect?</p>	<p>Yes. "HORIZONTAL PVC DRAINS" is correct here, corresponding to Bid Item 361, "HORIZONTAL PVC DRAIN".</p> <p>Bid Item 362, "UPSLOPE HORIZONTAL PVC DRAIN", is quantified correctly in the Summary of Quantities as modified by addendum.</p>
127	---	Will the Bid opening be delayed? We believe that an additional two week delay in the Bid opening is necessary for General Contractors, subcontractors, and suppliers to review and make the changes reflected in Addendums 5 & 6.	WSDOT intends to adhere to the 6/22/11 Bid opening date.
128	Special Provisions, Page 426, and Plan Sheet 378	<p>1) Where in the Special Provisions can I find the following items? Bid Item 41 – FILTER BLANKET TYPE A Bid Item 42 – FILTER BLANKET TYPE B</p> <p>2) Is there a plan sheet detail for FILTER BLANKET TYPE B?</p>	<p>1) Filter Blanket Types A & B are on page 426 of the Special Provisions.</p> <p>2) The location for Filter Blanket Type B is shown in Details B and C on Plan Sheet 378 (Sheet DD9).</p>